

ured to connect to a corresponding pneumatic actuation port of a second pneumatically actuated diaphragm pump of the disposable unit.

20. A fluid pumping system comprising a disposable fluid handling unit configured and arranged to couple with a base control unit of the fluid pumping system;

the base control unit including a manifold interface for coupling a manifold of the disposable fluid handling unit to the base control unit;

the manifold interface comprising a data key interface configured and arranged to interface with a corresponding data key on the manifold of the disposable fluid handling unit;

wherein the data key interface is configured and arranged to provide a communication interface through which a controller of the base control unit can read information from the data key on the manifold of the disposable unit.

21. The fluid pumping system of claim **20**, wherein the information from the disposable fluid handling unit read by

the controller of the base control unit via the data key interface comprises one or more of a serial number, a model number, an expiration date, or prior usage information.

22. The fluid pumping system of claim **20**, wherein the data key interface is configured and arranged to provide bi-directional communications between the controller and the data key.

23. The fluid pumping system of claim **4**, wherein the data key interface is configured and arranged to transmit usage information from the controller to the disposable unit.

24. The fluid pumping system of claim **21**, wherein the controller is configured and arranged to prevent the fluid pumping system from operating if the data key interface is not connected to the data key, if the data key is absent, if the disposable unit does not have a pre-determined serial or model number, if the disposable unit has exceeded a pre-determined expiration date, or if the disposable unit provides data that it has already been used.

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